

# Regional Surveillance Report: May 2016

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## SUMMARY

- **Health Service Region 2**

- There were a total of 55 cases reported in Health Service Region 2 for the month.
- Reported cases of campylobacteriosis, shigellosis and *Streptococcus*, invasive group B were beyond historical limits for the five-year monthly median (highlighted in Table 1).

- **Health Service Region 3**

- There were a total of 517 cases reported in Health Service Region 3 for the month.
- Reported cases of listeriosis and shigellosis were beyond historical limits for the five-year monthly median (highlighted in Table 2).

- **Outbreak Investigations**

- Four shigellosis outbreaks were investigated:
  - One outbreak associated with a childcare center in Collin County.
  - One outbreak associated with an elementary school in Tarrant County.
  - One outbreak associated with elementary schools and a childcare center in Johnson County.
  - One outbreak associated with an elementary school in Wichita County.
- Two pertussis outbreaks were investigated in Tarrant County associated with elementary schools.
- A Carbapenem Resistant *Enterobacteriaceae* outbreak was investigated in Dallas County associated with an acute care hospital.
- One enteric outbreak of unknown etiology was investigated in Collin County associated with a nursing home.
- A Methicillin Resistant *Staphylococcus aureus* (MRSA) outbreak was investigated in Dallas County associated with a neonatal intensive care unit (NICU).

**Please see the following tables and figures for more details.** NOTE: Counts include confirmed and probable cases reported to the Texas Department of State Health Services via NEDSS (National Electronic Disease Surveillance System) in report month. Counts include conditions coordinated by the epidemiology branch only. Cases may be pending investigation and counts are subject to change. A map of the region can be found on the last page of this report. Counts beyond historical limits or differing from the five year median may be due to current or past outbreaks, seasonal variations, or infrequently reported diseases.

**Table 1: Reported Disease Case Counts in Health Service Region 2, May 2016**

<u>Disease</u>	<u>May 2016</u>	<u>January - December 2016</u>	<u>5-Year Monthly Median F</u>	<u>Total Cases in Previous Years</u>					<u>Counties Reporting during May 2016 (Counts)</u>
				<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>	
Amebiasis	0	0	0	0	0	0	1	0	
Amebic meningitis and encephalitis	0	0	0	0	0	0	0	0	
Ascariasis (roundworm)*	0	0	0						
Botulism (adult and infant)	0	0	0	0	0	0	0	0	
<b>Campylobacteriosis</b>	15	67	4	134	37	38	71	43	Clay (1), Jones (1), Knox (1), Scurry (1), Taylor (2), Wichita (8), Young (1)
Carbapenem-resistant Enterobacteriaceae (CRE)	0	0	0	0	6	--	--	--	
Creutzfeldt-Jakob Disease (CJD)/Prion Disease	0	0	0	2	0	0	0	1	
Cryptosporidiosis	2	8	0	24	8	4	9	10	Runnels (1), Wichita (1)
Cyclosporiasis	0	0	0	6	1	4	0	0	
Diphtheria	0	0	0	0	0	0	0	0	
Fascioliasis (liver fluke/flatworm)*	0	0	0	--	--	--	--	--	
<i>Haemophilus influenzae</i> , invasive	3	5	0	0	1	0	0	0	Taylor (3)
Hemolytic Uremic Syndrome (HUS)	0	0	0	1	1	0	1	1	
Hepatitis A, acute	0	3	0	2	2	3	5	4	
Hepatitis B, acute	0	2	0	5	4	4	7	9	
Hepatitis B, perinatal	0	0	0	0	0	0	0	0	
Hepatitis C, acute	0	3	0	12	11	4	0	2	
Hepatitis E, acute	0	0	0	1	0	0	0	0	
Hookworm (Ancylostomiasis)*	0	0	0	--	--	--	--	--	
Influenza-associated pediatric mortality	0	0	0	1	0	0	0	0	
Legionellosis	0	0	0	6	6	3	4	2	

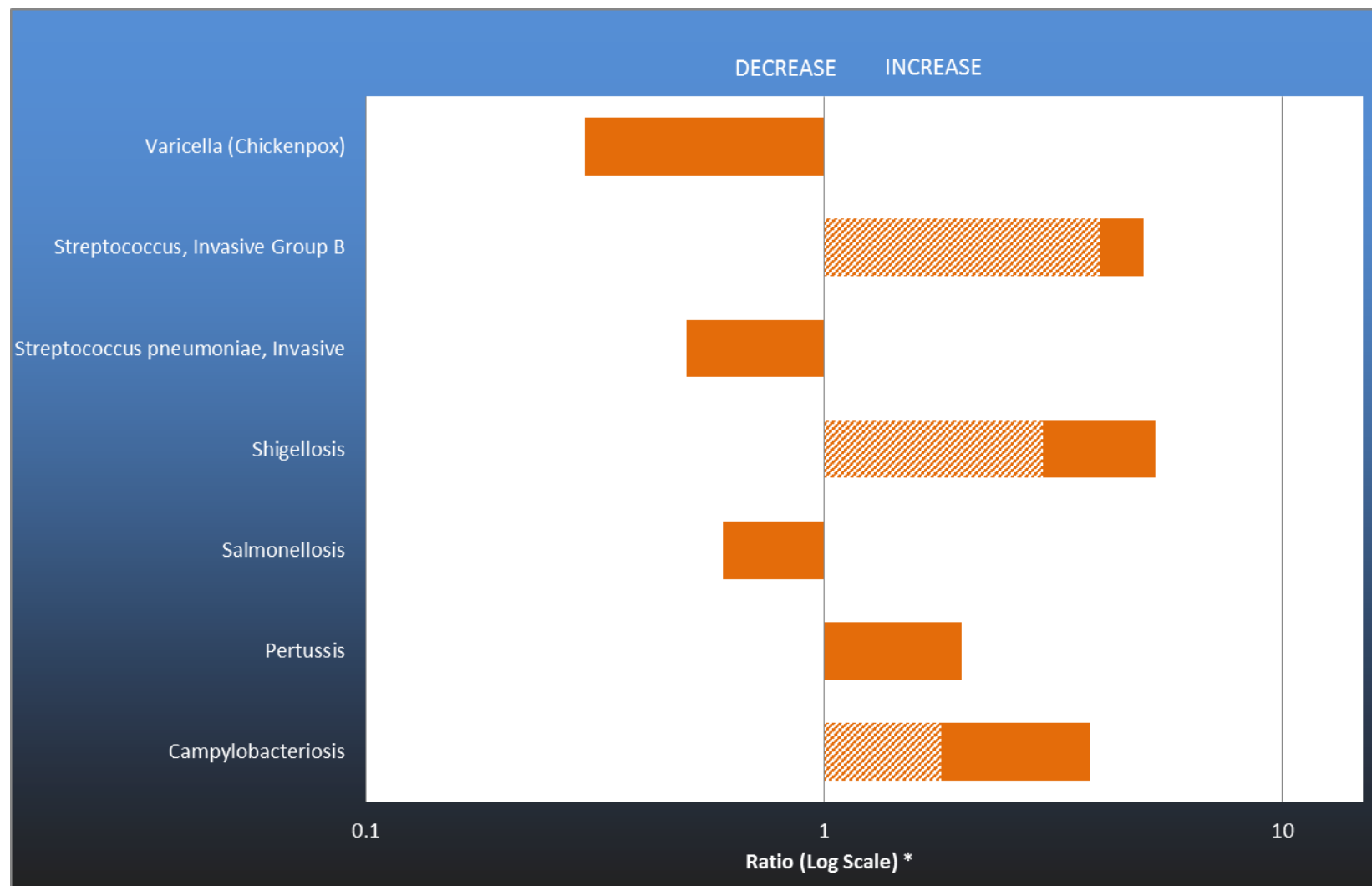
<u>Disease</u>	<u>May 2016</u>	<u>January - December 2016</u>	<u>5-Year Monthly Median F</u>	<u>Total Cases in Previous Years</u>					<u>Counties Reporting during May 2016 (Counts)</u>
				<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>	
Listeriosis	0	0	0	0	0	0	0	2	
Measles	0	0	0	0	3	0	0	0	
Multidrug-resistant <i>Acinetobacter</i> (MDR-A)	1	2	0	7	10	--	--	--	Brown (1)
Mumps	0	0	0	0	1	0	0	2	
<i>Neisseria meningitidis</i> , invasive	0	0	0	0	0	0	0	0	
Novel Coronavirus	0	0	0	0	0	0	0	0	
Paragonimiasis (Lung fluke/flatworm)*	0	0	0	--	--	--	--	--	
Pertussis	4	16	2	69	24	77	31	9	Baylor (1), Wichita (1), Wilbarger (1)
Poliomyelitis, acute paralytic	0	0	0	0	0	0	0	0	
Rubella (including congenital)	0	0	0	0	0	0	0	0	
Salmonellosis	5	33	9	145	117	133	200	140	Baylor (1), Jones (1), Runnels (1), Stephens (1), Wichita (1)
Shiga toxin-producing <i>Escherichia coli</i> (STEC)	2	5	2	18	26	15	13	20	Wichita (1), Young (1)
Shigellosis	16	72	3	76	20	41	187	63	Wichita (16)
Smallpox	0	0	0	0	0	0	0	0	
<i>Streptococcus pneumoniae</i> , invasive	1	23	2	52	22	14	24	18	Wichita (1)
<i>Streptococcus</i> , Invasive Group A	0	11	0	25	7	5	7	9	
<i>Streptococcus</i> , Invasive Group B	5	28	1	30	24	19	11	20	Brown (1), Runnels (1), Taylor (1), Wichita (1), Young (1)
Tetanus	0	0	0	0	0	0	0	0	
Trichuriasis (whipworm)*	0	0	0	--	--	--	--	--	
Typhoid Fever	0	0	0	0	1	0	0	0	

<u>Disease</u>	<u>May 2016</u>	<u>January - December 2016</u>	<u>5-Year Monthly Median ‡</u>	<u>Total Cases in Previous Years</u>					<u>Counties Reporting during May 2016 (Counts)</u>
				<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>	
Varicella (Chickenpox)	1	12	4	39	33	48	84	112	Brown (1)
Vibrio infection (including cholera)	0	0	0	1	2	1	0	3	
Viral Hemorrhagic Fever (including Ebola)	0	0	0	0	0	0	0	0	
Vancomycin Intermediate <i>S. aureus</i> (VISA)	0	0	0	0	1	1	1	0	
Vancomycin Resistant <i>S. aureus</i> (VRSA)	0	0	0	0	0	0	0	0	
Yersiniosis	0	0	0	1	1	0	0	0	
<b>Total</b>	<b>55</b>	<b>290</b>		<b>657</b>	<b>369</b>	<b>414</b>	<b>656</b>	<b>470</b>	

‡ Calculated by determining the median of the incidence counts for the current month, the month preceding the current month, and the month following the current month, for the 5 preceding years.

\* Reportable conditions as of 2016, no previous data available.

**FIGURE I. Notifiable Diseases Exceeding Five-year Monthly Median for May 2016, Health Service Region 2**



\*Ratio of current monthly total to median of 15 month totals (from previous, comparable, and subsequent months for the past 5 years). Conditions with a 5-year monthly median of zero or a ratio of 1 are not displayed in the figure above.

Current Ratio
  Historical Limits

**Table 2: Reported Disease Case Counts in Health Service Region 3, May 2016**

<u>Disease</u>	<u>May 2016</u>	<u>January – December 2016</u>	<u>5-Year Monthly Median †</u>	<u>Total Cases in Previous Years</u>					<u>Counties Reporting during May 2016 (Counts)</u>
				<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>	
Amebiasis	2	18	4	52	46	65	56	53	Collin (2)
Amebic meningitis and encephalitis	0	0	0	0	0	0	0	0	
Ascariasis (roundworm) *	0	0	0						
Botulism (adult and infant)	0	1	0	2	1	2	0	1	
Campylobacteriosis	68	255	58	817	657	606	572	438	Collin (7), Cooke (1), Dallas (20), Denton (5), Ellis (2), Grayson (2), Hood (1), Hunt (1), Johnson (6), Kaufman (2), Navarro (1), Parker (1), Somervell (1), Tarrant (18)
Carbapenem-resistant Enterobacteriaceae (CRE)	5	34	0	52	29	--	--	--	Dallas (4), Tarrant (1)
Creutzfeldt-Jakob Disease (CJD)/Prion Disease	0	0	0	6	9	1	6	2	
Cryptosporidiosis	7	54	7	249	97	128	98	126	Collin (1), Dallas (2), Kaufman (1), Tarrant (3)
Cyclosporiasis	1	1	1	105	118	183	13	9	Tarrant (1)
Diphtheria	0	0	0	0	0	0	0	0	
Fascioliasis (liver fluke/flatworm) *	0	0	0	--	--	--	--	--	
<i>Haemophilus influenzae</i> , invasive	9	38	0	2	3	0	2	1	Collin (1), Dallas (4), Erath (1), Kaufman (1), Tarrant (2)
Hemolytic Uremic Syndrome (HUS)	0	0	0	7	3	4	8	5	
Hepatitis A, acute	2	17	4	47	27	27	62	55	Collin (1), Dallas (1)
Hepatitis B, acute	3	15	2	42	22	24	38	42	Collin (1), Johnson (1), Tarrant (1)
Hepatitis B, perinatal	0	0	0	0	1	1	1	1	
Hepatitis C, acute	1	4	1	23	19	11	20	8	Denton (1)

<b>Disease</b>	<b>May 2016</b>	<b>January – December 2016</b>	<b>5-Year Monthly Median ‡</b>	<b>Total Cases in Previous Years</b>					<b>Counties Reporting during May 2016 (Counts)</b>
				<b>2015</b>	<b>2014</b>	<b>2013</b>	<b>2012</b>	<b>2011</b>	
Hepatitis E, acute	1	4	0	1	5	4	4	7	Collin (1)
Hookworm (Ancylostomiasis) *	0	0	0	--	--	--	--	--	
Influenza-associated pediatric mortality	0	2	0	5	5	2	5	5	
Legionellosis	6	19	5	122	105	68	59	52	Collin (1), Dallas (1), Johnson (1), Tarrant (3)
Listeriosis	3	6	1	6	5	9	8	14	Denton (1), Grayson (2)
Measles	0	1	0	1	4	25	0	3	
Multidrug-resistant <i>Acinetobacter</i> (MDR-A)	19	109	0	220	177	0	0	0	Collin (4), Dallas (6), Denton (2), Hunt (1), Parker (1), Tarrant (5)
Mumps	0	2	0	6	5	1	5	7	
<i>Neisseria meningitidis</i> , invasive	1	4	0	4	5	13	13	10	Tarrant (1)
Novel Coronavirus	0	0	0	0	0	0	0	0	
Paragonimiasis (Lung fluke/flatworm) *	0	0	0	--	--	--	--	--	
Pertussis	74	253	60	629	1,041	1,850	675	282	Collin (4), Dallas (4), Denton (6), Hood (1), Johnson (7), Kaufman (1), Parker (2), Rockwall (1), Tarrant (48)
Poliomyelitis, acute paralytic	0	0	0	0	0	0	0	0	
Rubella (including congenital)	0	0	0	2	0	0	0	0	
Salmonellosis	72	309	89	1,437	1,137	1,142	1,245	1,208	Collin (5), Cooke (1), Dallas (13), Denton (6), Ellis (2), Erath (2), Hunt (2), Johnson (6), Kaufman (1), Palo Pinto (3), Parker (5), Rockwall (2), Tarrant (22), Wise (2)
Shiga toxin-producing <i>Escherichia coli</i> (STEC)	18	73	15	188	222	162	125	145	Collin (3), Dallas (3), Denton (3), Ellis (1), Fannin (1), Kaufman (1), Rockwall (1), Tarrant (4), Wise (1)

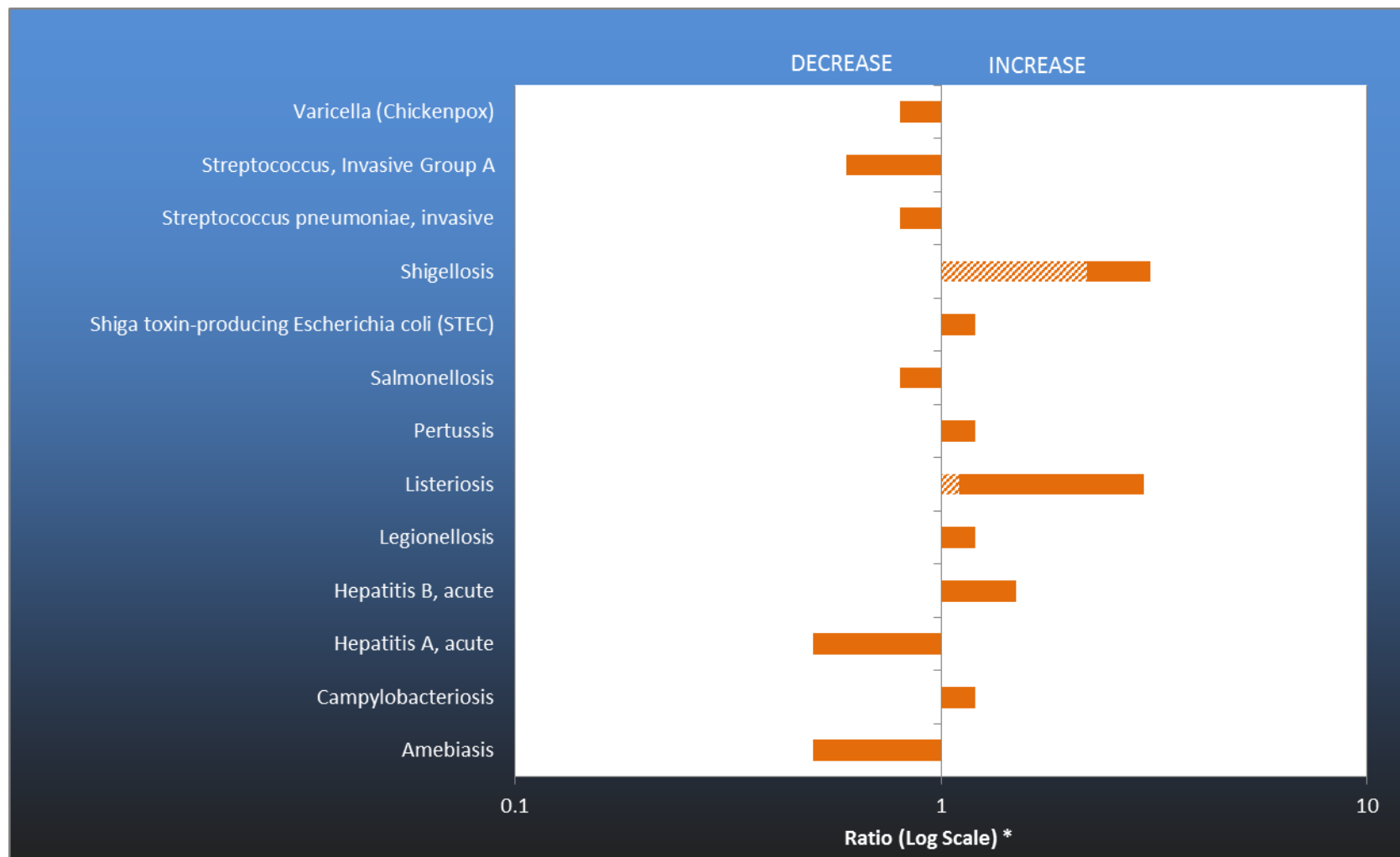
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Shigellosis	113	479	36	898	739	667	376	676	Collin (10), Cooke (1), Dallas (31), Denton (9), Ellis (3), Hunt (1), Johnson (19), Kaufman (4), Rockwall (2), Tarrant (33)
Smallpox	0	0	0	0	0	0	0	0	
<i>Streptococcus pneumoniae</i> , invasive	28	298	33	483	518	499	458	413	Collin (1), Dallas (12), Denton (4), Hunt (1), Johnson (1), Kaufman (1), Navarro (1), Tarrant (7)
<i>Streptococcus</i> , Invasive Group A	7	53	11	186	202	118	104	152	Dallas (6), Denton (1)
<i>Streptococcus</i> , Invasive Group B	26	182	25	523	421	281	292	288	Collin (3), Dallas (10), Denton (2), Ellis (1), Erath (1), Hunt (1), Parker (1), Tarrant (7)
Tetanus	0	2	0	1	1	0	0	1	
Trichuriasis (whipworm) *	0	0	0	--	--	--	--	--	
Typhoid Fever	3	7	0	7	9	7	8	11	Collin (1), Dallas (1), Grayson (1)
Varicella (Chickenpox)	46	169	61	372	499	513	614	710	Collin (21), Dallas (4), Denton (4), Johnson (3), Kaufman (1), Parker (4), Rockwall (1), Tarrant (7), Wise (1)
Vibrio infection (including cholera)	1	4	1	14	16	10	16	9	Tarrant (1)
Viral Hemorrhagic Fever (Ebola)	0	0	0	0	3	0	0	0	
Vancomycin Intermediate <i>S. aureus</i> (VISA)	0	1	0	5	1	2	7	1	
Vancomycin Resistant <i>S. aureus</i> (VRSA)	0	0	0	0	0	0	0	0	
Yersiniosis	1	2	0	5	6	12	5	4	Tarrant (1)
<b>Total</b>	<b>517</b>	<b>2,416</b>		<b>6,519</b>	<b>6,158</b>	<b>6,437</b>	<b>4,895</b>	<b>4,739</b>	

‡ Calculated by determining the median of the incidence counts for the current month, the month preceding the current month, and the month following the current month, for the 5 preceding years.

\* Reportable conditions as of 2016, no previous data available.



**FIGURE II. Notifiable Diseases Exceeding Five-year Monthly Median for May 2016, Health Service Region 3**



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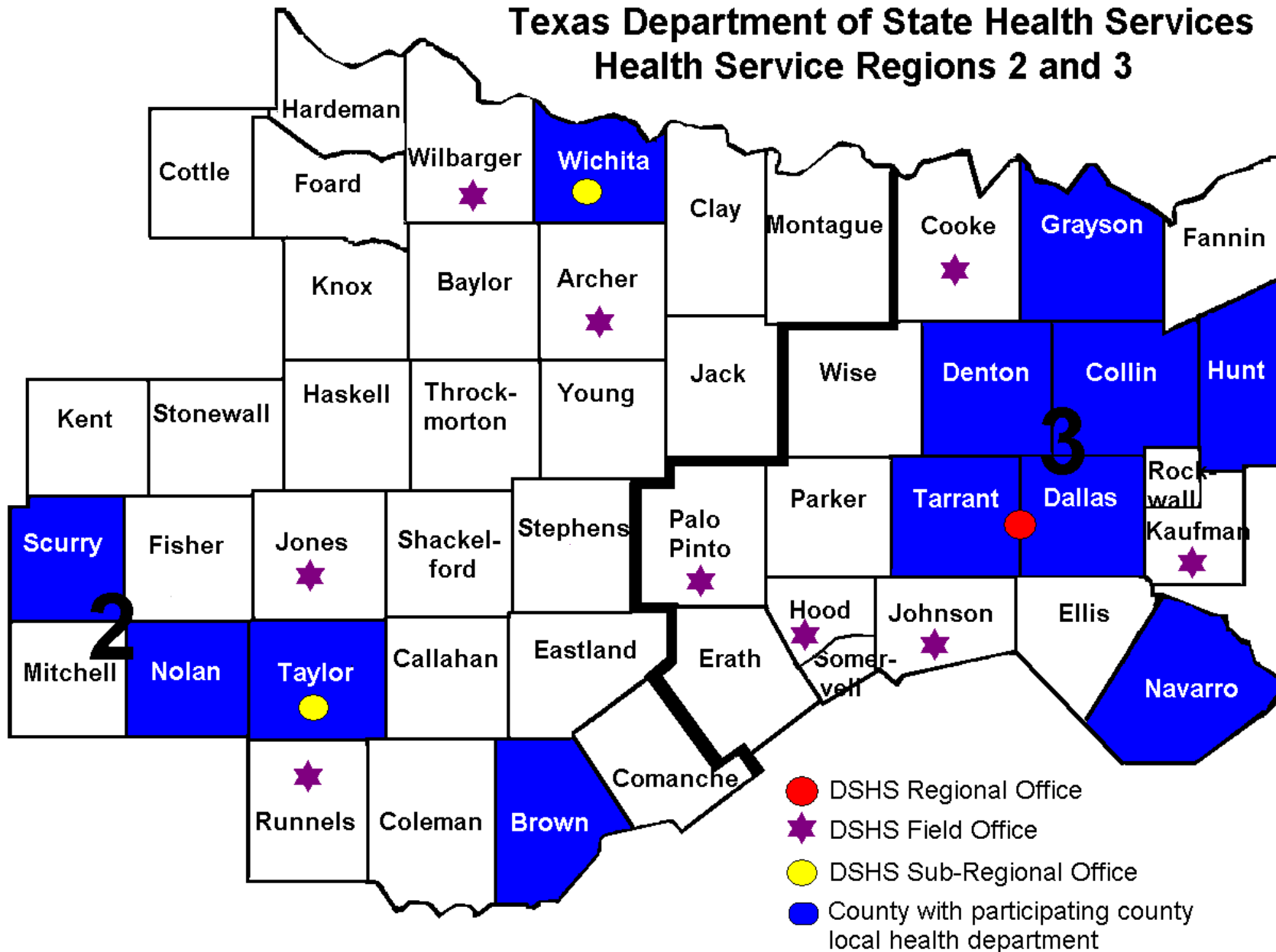


Current Ratio



Historical Limits

## Texas Department of State Health Services Health Service Regions 2 and 3



If you have any questions about this monthly report or notifiable disease conditions in Texas, please contact:

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